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**HQV** 





# **Compliance Information**

#### **FCC Statement**

This device complies with part 15 of FCC Rules. Operation is subject to the following two conditions: (1) this device may not cause harmful interference, and (2) this device must accept any interference received, including interference that may cause undesired operation.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation. This equipment generates, uses, and can radiate radio frequency energy, and if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation. If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one or more of the following measures:

- · Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

Warning: You are cautioned that changes or modifications not expressly approved by the party responsible for compliance could void your authority to operate the equipment.

#### For Canada

- This Class B digital apparatus complies with Canadian ICES-003.
- Cet appareil numérique de la classe B est conforme à la norme NMB-003 du Canada.

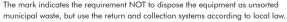
#### **CE Conformity for European Countries**



The device complies with the requirements of the EEC directive 2004/108/EC as amended by 92/31/EEC and 93/68/EEC Art.5 with regard to "Electromagnetic compatibility", and 2006/95/EC as amended by 93/68/EEC Art.13 with regard to "Safety."

### Following information is only for EU-member states:

The mark shown to the right is in compliance with the Waste Electrical and Electronic Equipment Directive 2002/96/EC (WEEE).





### **Important Safety Instructions**

- 1. Read these instructions.
- 2. Keep these instructions.
- 3. Heed all warnings.
- 4. Follow all instructions.
- Do not use this unit near water.
- Clean with a soft, dry cloth. If still not clean, see "Cleaning the Display" in this guide for further instructions.
- Do not block any ventilation openings. Install the unit in accordance with the manufacturer's instructions.
- 8. Do not install near any heat sources such as radiators, heat registers, stoves, or other devices (including amplifiers) that produce heat.
- 9. Do not defeat the safety purpose of the polarized or grounding-type plug. A polarized plug has two blades with one wider than the other. A grounding type plug has two blades and a third grounding prong. The wide blade and the third prong are provided for your safety. If the provided plug does not fit into your outlet, consult an electrician for replacement of the obsolete outlet.
- 10. Protect the power cord from being walked on or pinched particularly at plugs. Convenience receptacles and the point where they exit from the unit. Be sure that the power outlet is located near the unit so that it is easily accessible.
- 11. Only use attachments/accessories specified by the manufacturer.



Use only with the cart, stand, tripod, bracket, or table specified by the manufacturer, or sold with the unit. When a cart is used, use caution when moving the cart/unit combination to avoid injury from tipping over.

- 13. Unplug this unit when unused for long periods of time.
- 14. Refer all servicing to qualified service personnel. Servicing is required when the unit has been damaged in any way, such as: if the power-supply cord or plug is damaged, if liquid is spilled onto or objects fall into the unit, if the unit is exposed to rain or moisture, or if the unit does not operate normally or has been dropped.

### **Declaration of RoHS Compliance**

This product has been designed and manufactured in compliance with Directive 2002/95/EC of the European Parliament and the Council on restriction of the use of certain hazardous substances in electrical and electronic equipment (RoHS Directive) and is deemed to comply with the maximum concentration values issued by the European Technical Adaptation Committee (TAC) as shown below:

Substance	Proposed Maximum Concentration	Actual Concentration
Lead (Pb)	0.1%	< 0.1%
Mercury (Hg)	0.1%	< 0.1%
Cadmium (Cd)	0.01%	< 0.01%
Hexavalent Chromium (Cr <sup>6+</sup> )	0.1%	< 0.1%
Polybrominated biphenyls (PBB)	0.1%	< 0.1%
Polybrominated diphenyl ethers (PBDE)	0.1%	< 0.1%

Certain components of products as stated above are exempted under the Annex of the RoHS Directives as noted below:

Examples of exempted components are:

- Mercury in compact fluorescent lamps not exceeding 5 mg per lamp and in other lamps not specifically mentioned in the Annex of RoHS Directive.
- Lead in glass of cathode ray tubes, electronic components, fluorescent tubes, and electronic ceramic parts (e.g. piezoelectronic devices).
- Lead in high temperature type solders (i.e. lead-based alloys containing 85% by weight or more lead).
- 4. Lead as an allotting element in steel containing up to 0.35% lead by weight, aluminium containing up to 0.4% lead by weight and as a cooper alloy containing up to 4% lead by weight.

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### **Product Registration**

To meet your future needs, and to receive any additional product information as it becomes available, please register your product on the Internet at: www.viewsonic.com. The ViewSonic® Wizard CD-ROM also provides an opportunity for you to print the registration form, which you may mail or fax to ViewSonic.

### For Your Records

Product Name: Pro8100

Home Theater Projector

Model Number: VS11856

Document Number: Pro8100 UG ENG Rev. 1C 04-16-08

Serial Number:

Purchase Date:



The lamp in this product contains mercury.

Please dispose of in accordance with local, state or federal laws.

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# **Chapter 1: Introduction**

### **Projector Features**

The projector integrates high-performance optical engine projection and a user-friendly design to deliver high reliability and ease of use.

- 1080P (1920x1080) Full HD native resolution.
- C<sup>2</sup> Fine<sup>TM</sup> LCD panel for superior performance.
- Silicon Optix HQV<sup>TM</sup> for highest quality video.
- Precision Color System for true color image enhancement.
- · Power horizontal and vertical lens shift
- HDMI 1.3 support with HDCP compliance.
- · 1.6x power optical zoom lens.
- · Auto-iris enables high contrast to produce deeper black levels.
- · Daylight sensor for auto setting based on ambient light conditions.
- 1080p 24fps capable
- Full discrete IR and RS-232 command codes

### Notes on the AC Power Cord

AC Power Cord must meet the requirement of countries where you use this projector. Please confirm your AC plug type with the graphics below and ensure that the proper AC Power Cord is used. If the supplied AC Power Cord does not match your AC outlet, please contact your sales dealer. This projector is equipped with a grounding type AC line plug. Please ensure that your outlet fits the plug. Do not defeat the safety purpose of this grounding type plug. We highly recommend using a video source device also equipped with a grounding type AC line plug to prevent signal interference due to voltage fluctuations.









### **Package Contents**

When you unpack the projector, make sure you have all these components:









Power cord

Projector

Projector dust

Component (RCA) cable

HDMI cable

cover





Micro-fiber wiping cloth

**Batteries** 

Remote control

Quick start auide

7. AA size batteries for remote control x 2

User Guide

6. Micro-fiber wiping cloth. x1

- 8. Remote control x1
- 9. Quick start guide x1
- 10. User Guide x1

### « NOTE »

1. Projector

4. Power cord x1

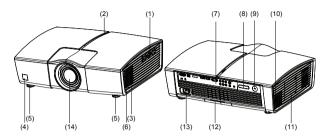
5. HDMI cable x1

2. Projector dust cover. x1

3. Component (RCA) cable x1

- · Save the original shipping carton and packing material; they will come in handy if you ever to ship your unit. For maximum protection, repack your unit as it was originally packed at the factory.
- Accessories and components may vary by retailer and region.

## **Projector Overview**



- 1. Control panel
- ol panel 9. Kensington lock
- 2. LED indicator

10. Air outlet grille

3. Air inlet grille

- 11. Lamp cover
- 4. Front IR remote control sensor
- 12. Air filter cover

5. Elevation foot

13. AC power socket

6. Elevation button

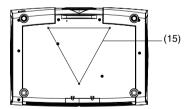
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14. Projection lens

7. Connection ports

- 15. Ceiling mount (3-M6)
- 8. Rear IR remote control sensor

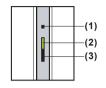


#### « NOTE»

This projector can be used with a ceiling mount for support. The ceiling mount is not included
in the package.

### **Control Panel**

#### LED indicator:



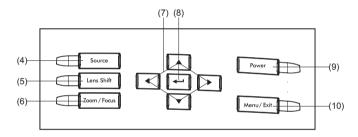
- 1. Daylight sensor.
- 2. Power indicator

Refer to "LED Indicator Message" (Page 50).

3. Status indicator

Refer to "LED Indicator Message" (Page 50).

#### **Button Function:**



4. Source

Manually selects an input source.

5. Lens Shift

Motorized vertical and horizontal lens shift for positioning display image without physically moving the unit.

6. Zoom/Focus

Motorized zoom and focus adjust.

7. Four directional buttons

Use four directional buttons to select items or make adjustments to your selections.

8. Enter

To confirm selected menu item.

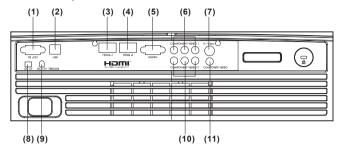
9. Power

Turn on or off the projector.

10. Menu/Exit

Opens and Exits the on-screen menu.

### **Connection ports**



1. RS-232 terminal

When operating the projector via a computer, connect this to the controlling computer's RS-232C port.

2. USB terminal (Service purpose)

This connector is for firmware upgrade.

3. HDMI-1 terminal

Interface for digital video.

4. HDMI-2 terminal

Interface for digital video.

5. RGB IN terminal

Connects PC input signal (analog) to this jack.

6. COMPONENT VIDEO 1 terminals

Analog/digital video interface transmits via three separate signals - Y, Cb/Pb, Cr/Pr.

7. S-VIDEO terminal

Connects S-Video output from video equipment to this jack.

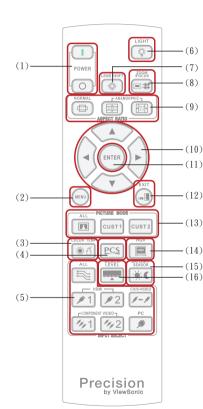
- 8. DC 5V terminal
- 9. DC 12V TRIGGER terminal
- 10. COMPONENT VIDEO 2 terminals

Analog/digital video interface transmits via three separate signals - Y, Cb/Pb, Cr/Pr.

11. COMPOSITE VIDEO terminal

Connects composite video output from video equipment to this jack.

#### Remote Control



#### 1. POWER

Power On: Discrete power on key.
Power Off: Discrete power off key.

#### 2. MENU

Opens and Exits the on-screen menu.

#### 3. COLOR TEMP

Selections of color shading. Browse through factory defaults and user color temp.

#### 4. PCS

Selection of PCS mode.

PCS On: Use ViewSonic default PCS settings.

USER: Use user defined PCS settings.

PCS Off: Turn off all PCS settings.

#### 5. INPUT SELECT

All: Browse through HDMI 1/2, Component Video 1/2, Composite, S-Video and PC inputs.

HDMI 1: Direct access key for HDMI 1 input.

HDMI 2: Direct access key for HDMI 2 input.

Component Video 1: Direct access key for Component Video 1.

Component Video 2: Direct access key for Component Video 2.

Composite Video and S-Video selection. Browse through Composite Video and S-Video inputs.

PC: Direct access key for PC input.

#### 6. LIGHT

Keypad Light Enable. Keypad will also light up if any other remote control key is pressed.

#### 7. LENS SHIFT

Motorized vertical and horizontal lens shift for positioning display image without physically moving the unit.

#### 8. ZOOM/FOCUS

Motorized zoom and focus adjust.

#### 9. ASPECT RATIO

Selections of screen proportion.

Normal: Browse through Standard, Full Screen, Crop and Flexview aspect ratios.

Anamorphic 1: Use in conjunction of 16:9 to 2:35:1 conversion lens.

Anamorphic 2: Use in conjunction of 16:9 to 2:35:1 conversion lens.

Note: Requires use of optional .Anamorphic lens. ViewSonic does not provide this optional lens. For more details on where to purchase the Anamorphic 2.35:1 lens, please visit

#### 10. FOUR DIRECTIONAL BUTTONS

Use four directional buttons to select items or make adjustments to your selection.

#### 11. ENTER

To confirm selected menu item.

#### 12. EXIT

To Exits the on-screen menu or Cancel the current OSD selection.

#### 13. PICTURE MODE

Selections of picture modes, for easy access to ViewSonic customized presets and customized settings.

All: Browse through Normal, Vivid, Cinema and Professional picture mode.

Custom 1: Recall customized setting 1.

Custom 2: Recall customized setting 2.

#### 14. HQV

HQV enable.

On: Use ViewSonic default HQV settings.

Off: Turn off all HQV settings.

Note: User defined HQV settings can only be accessed in the OSD.

#### 15. DAYLIGHT SENSOR

Daylight sensor enable.

Auto: Daylight mode bases on light sensor detection.

Manual: Manually selects daylight mode.

Off: Turn off daylight mode.

#### 16. BLACK LEVEL

Defines the brightness levels at the darkest visual image point.

### **Installing the Batteries**

1. Open the battery cover in the direction shown.



2. Install batteries as indicated by the diagram inside the compartment.



3. Close the battery cover into position.



#### « NOTE »

- Keep the batteries out of the reach of children. There is a danger of death by accidentally swallowing the battery.
- Remove batteries from remote control when not being used for extended periods.
- Do not dispose of the used battery along with household waste. Dispose of used batteries
  according to local regulations.
- Danger of explosion may occur if batteries are incorrectly replaced. Replace all the batteries with new ones.

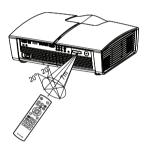
### **Remote Control Operation**

Point the remote control at the infrared remote sensor and press a button.

· Operating the projector from the front



• Operating the projector from the rear



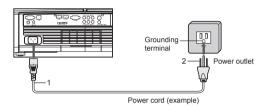
#### « NOTE »

- Do not point the LED light pointer directly to the people's eyes (especially small children). There is a danger of injury to the eyes.
- The remote control may not operate when there is sunlight or other strong light such as a fluorescent lamp shining on the remote sensor.
- $\bullet$  Operate the remote control from a position where the remote sensor is visible.
- Do not drop the remote control or jolt it.
- · Keep the remote control out of locations with excessively high temperature or humidity.
- Do not get water on the remote control or place wet objects on it.
- · Do not disassemble the remote control.

# **Chapter 2: Installation**

#### Power connection

- 1. Remove the projector lens cap.
- 2. Plug the attached power cord into the AC power socket of this projector.
- 3. Plug the other end of the power cord into a power outlet.



- The power cords for use in the U.S., UK and Europe are included with this projector. Use the appropriate one for your country.
- This projector uses the power plug of three-pin grounding type. Do not remove the grounding
  pin from the power plug. If the power plug doesn't fit your wall outlet, ask an electrician to
  change the wall outlet.
- The provided power cord for the U.S. is rated at 120 V. Never connect this cord to any outlet or
  power supply using other voltages or frequencies than rated. If you use a power supply using
  other voltage than rated, prepare an appropriate power cord separately.
- Use 100-240 V AC 50/60 Hz to prevent fire or electric shock.
- Do not place any objects on the power cord or do not place the projector near heat sources to
  prevent damage to the power cord. If the power cord should be damaged, contact your dealer
  for replacement because it may cause fire or electric shock.
- Do not modify or alter the power cord. If the power cord is modified or altered, it may cause fi
  re or electric shock.

#### Caution:

- Plug in the power cord firmly. When unplugging, hold and pull the power plug, not the power cord.
- Do not plug in or out the power cord with your hand wet. It may cause electric shock.

# **Audio and Video Devices Connectivity Configuration**

ViewSonic Pro8100 offers a full complementary video input connectivity - from the hi-tech HDMI to the basic composite video.

There are vast possibilities of audio & video connectivity configurations user can choose from.

However the best setup combination relies on user's equipments and using preferences.

Please seek professional advice for best matching setup. The video input type priority sequence is listed below:

• HDMI • Component Video • S-Video • Composite Video

The illustration below shows some recommended setup configuration possibilities.

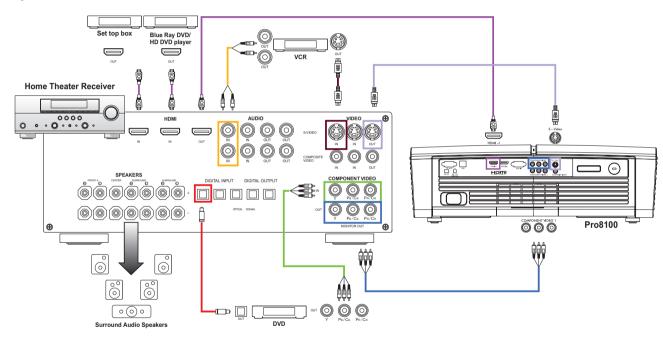
#### A. Using Home Theater System as hub

This setup is recommended if a highly sophisticated home theater system is available.

This setup offers a great ease on utility for user, since settings of both audio and video can be changed without manual matching.

Pros: Eliminate audio and video source matching between projector and audio amplifier. Increase number of connecting devices. Reduce cabling to the projector.

Cons: High cost.



Note: The illustrated home theater receiver contains HDMI out, component video out, S-Video out and composite video out. Not all home theater receiver has full complementary of video output.

#### B. Using Projector as hub

This setup is recommended for low to mid range home theater system.

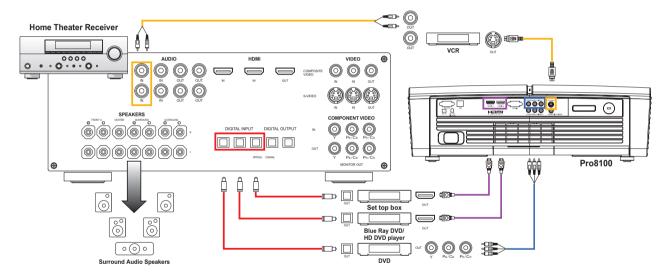
When changing input source, both projector and home theater system's remote controls need to be activated.

Projector and home theater system controls can be centralizing controlled by 3rd party's home appliances control system (Projector is via RS232).

Please seek professional advice for best suited type of home appliances control system.

Pros: Low budget.

Cons: It is required to match audio and video sources between projector and audio amplifier manually. Masses of routing cables need to be connected to projector.



#### C. Connecting Cable or Satellite TV

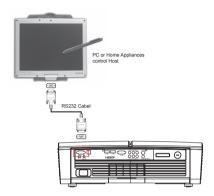
There's no build-in TV tuner in ViewSonic Pro8100.

It will only take direct video output (HDMI, Component Video, S-Video or Composite Video.) with cable or satellite set-top-box.

Please use by the recommended input priority order.

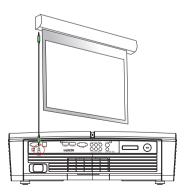
Please to use HDMI or Component Video connection only if cable or satellite offers HDTV signals (Check with cable or satellite TV provider.).

The illustration shows the connection to a home appliances control device. ViewSonic Pro8100's RS232 command code table and setup protocol are listed in the Appendix section.



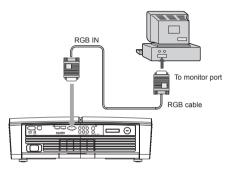
### E. 12V Screen Curtain Trigger

ViewSonic Pro8100 offers a 12V trigger control pulse upon power-on and power-off. This 12V trigger pulse can be utilized to motor drive of a home theater's curtain or a drop-down projection screen.



#### F. PC Input

ViewSonic Pro8100 can take analog PC video signal by RGB IN (Shown in the illustration below.).



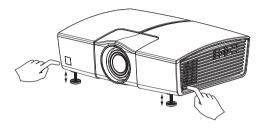
#### « NOTE »

- When connecting cable, power cords of both a projector and external equipment should be disconnected from AC outlet.
- The figure above is a sample connection. This does not mean that all of these devices can or must be connected simultaneously.
- The cables that come with the projector may differ from the above illustration. The included cables are based on actual shipment delivery.

ENG

# Adjusting the Projected Image

#### Adjusting the Projector Height



The projector is equipped with two elevation feet to adjust the image height.

To raise the image:

- 1. Press the elevation button.
- Raise the image to the desired height angle, then release the button to lock the elevation foot into position.

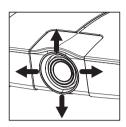
To lower the image:

- 1. Press the elevation button.
- 2. Lower the image, then release the button to lock the elevation feet into position.

#### « NOTE »

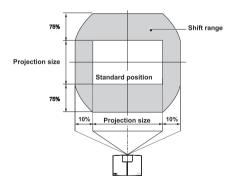
 To avoid damaging the projector, make sure that the elevation feet are fully retracted before placing the projector in its package.

#### Adjusting the Projector Lens Position



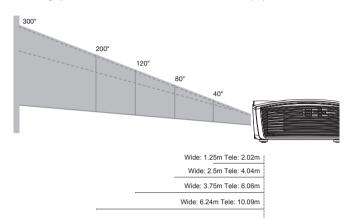
- 1. Press the Lens Shift button.
- 2. Use four directional buttons to adjust the lens position.

### The adjustable projection range



### **Adjusting Projection Image Size**

Refer to the graphic and table below to determine the screen size and projection distance.



Wide: 9.36m Tele: 15.14m

### **Projection Screen Selection**

ViewSonic Pro8100's preset image modes are calibrated based on a no-gain, pure flat white projection screen. For best preset performance, it is highly recommended to use a no-gain, flat white professional projection screen. The projection screens used in most office are gain-screens. Material used in brightness gain screen will cause decrease in viewing angle and hot-spot symptom. Black level and contrast performances can also be altered by the gain-screen since the gain will also boost the dark level brightness. The so-called hi-contrast gray projection screen can also alter the contrast and black level performance. The best viewing performance can not be brought by the standard factory presets, when using these types of projection screens.

Please seek professional help for adapting a specialized screen, when calibrating the projector settings manually.

	16 : 9 Screen				
Screen Size	Wide Projection Distance		Tele Projection Distance		
(Diagonal)					
	m	inch	m	inch	
40"	1.25	49.2	2.02	79.5	
50"	1.56	61.5	2.52	99.4	
60"	1.87	73.7	3.03	119.2	
70"	2.19	86.0	3.53	139.1	
80"	2.50	98.3	4.04	159.0	
90"	2.81	110.6	4.54	178.8	
100"	3.12	122.9	5.05	198.7	
120"	3.75	147.5	6.06	238.5	
150"	4.68	184.3	7.57	298.1	
200"	6.24	245.8	10.09	397.4	
250"	7.80	307.2	12.62	496.8	
300"	9.36	368.7	15.14	596.2	

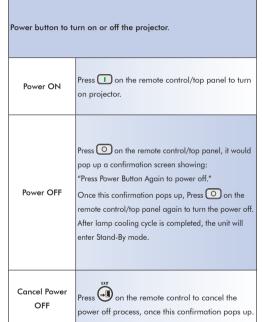
#### « NOTE»

- Position the projector in a horizontal position; other positions can cause heat build-up and damage to the projector.
- Make sure all intake and exhaust ventilation are not blocked.
- Do not use the projector in a smoky environment. Smoke residue can cause buildup on critical parts.

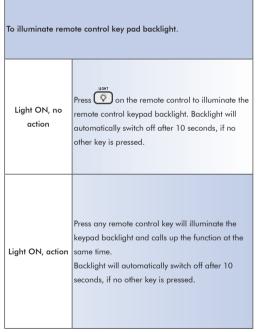
# **Chapter 3: Remote Control direct access**

Power Light



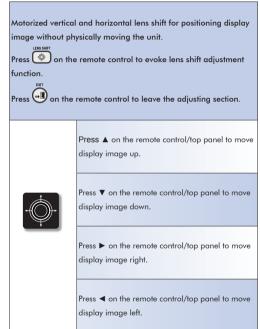






# **Lens Shift**





# **Zoom and Focus**



Motorized zoom and focus adjust.

Press on the remote control to browse through zoom and focus adjust options.

Press on the remote control to confirm the selection.

Press on the remote control to leave the adjusting section.

Enlarge/minimise the image optically.

Press on the remote control/top panel to Zoom out.

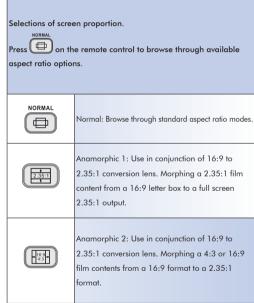
Adjust the clarity and sharpness of the image optically.

Press on the remote control/top panel to Zoom out.

adjust the focus.

# **Aspect Ratio**

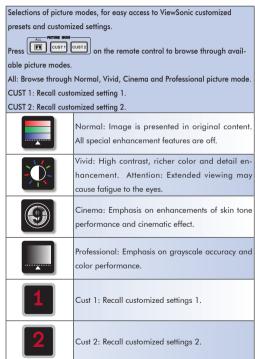




Note: Requires use of optional .Anamorphic lens. ViewSonic does not provide this optional lens. For more details on where to purchase the Anamorphic 2.35:1 lens, please visit www.viewsonic.com

## **Picture Modes**





# **Color Temperature**





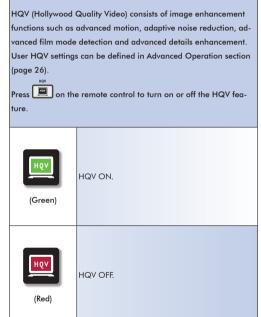
# PCS (Precision Color System)



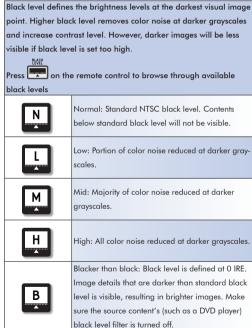
PCS consists of advanced color enhancement functions such as flesh tone correction, edge enhancement, gamma correction and 3D color management. Preset or customized settings can be selected in the OSD menu, PCS Settings section (page 33). Press PCS on the remote control to turn on or off the PCS feature. (Color) Customized PCS settings. PCS OFF. (B&W)

HQV Black Level









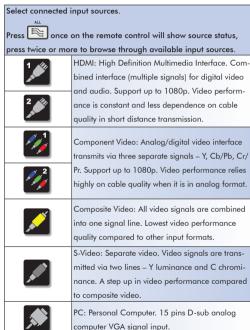
# **Daylight Sensor**





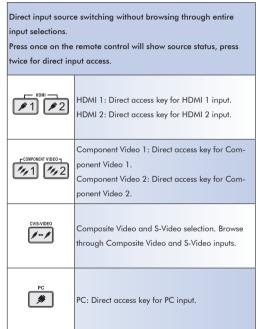
# **Input Select**





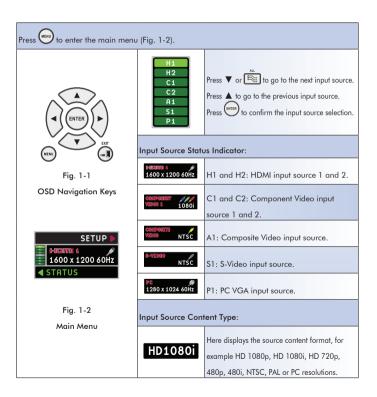
# **Direct Input Keys**



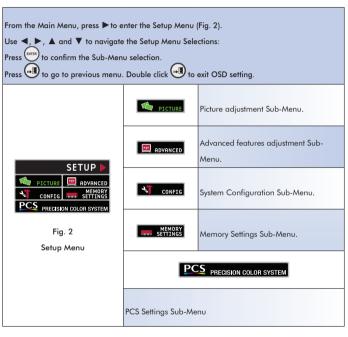


# Chapter 4: ADVANCED OPERATION (OSD Menu)

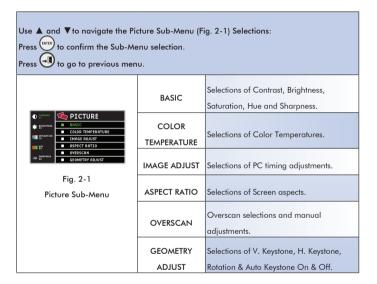
# 1. Main Menu



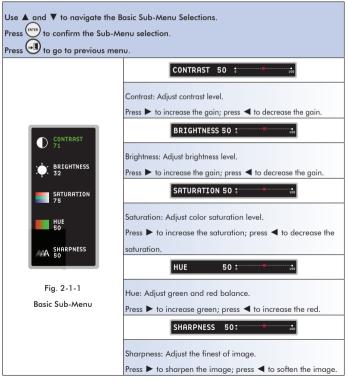
# 2. Setup Menu



## 2-1. Picture Sub-Menu

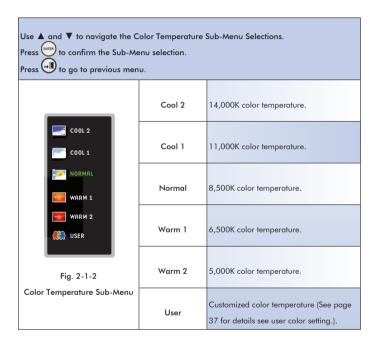


# 2-1-1 Basic Sub-Menu

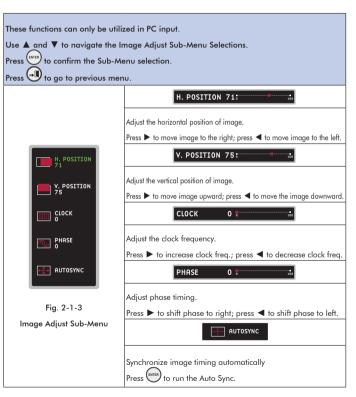


ENG

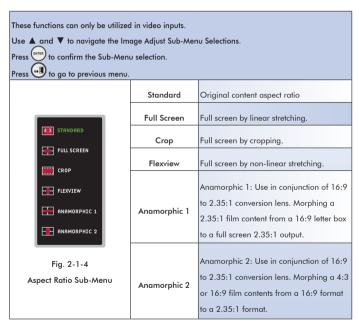
# 2-1-2 Color Temperature Sub-Menu



# 2-1-3 Image Adjust Sub-Menu

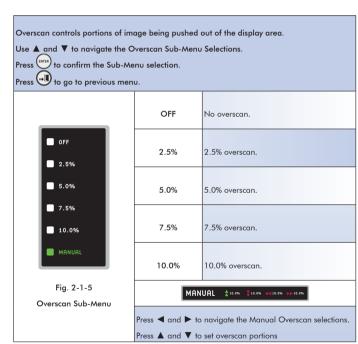


# 2-1-4 Aspect Ratio



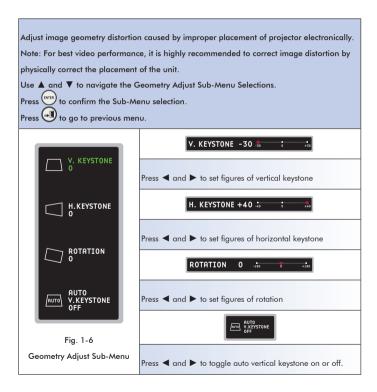
Note: Requires use of optional .Anamorphic lens. ViewSonic does not provide this optional lens. For more details on where to purchase the Anamorphic 2.35:1 lens, please visit www.viewsonic.com

### 2-1-5 Overscan

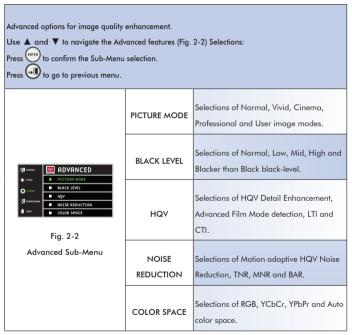


Note: 1080i and 1080p maximum overscan is 7.5%

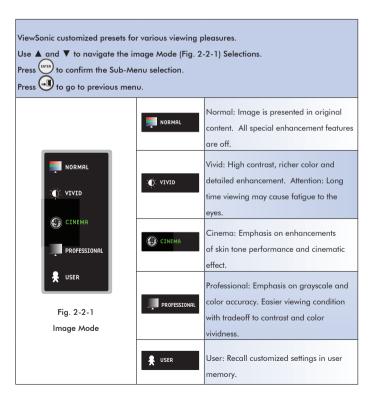
# 2-1-6 Geometry Adjust



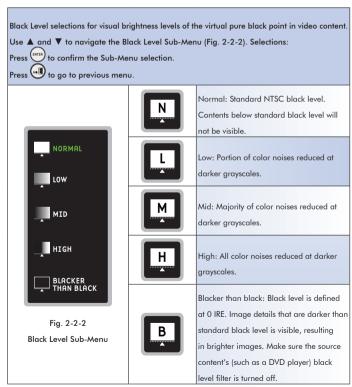
# 2-2. Advanced Sub-Menu



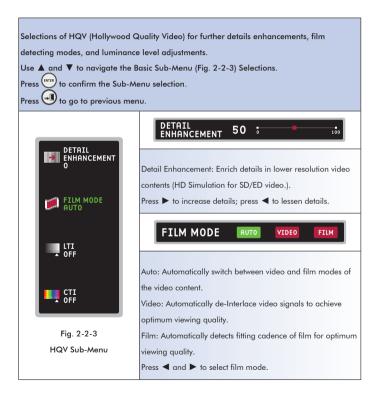
### 2-2-1 Picture Mode

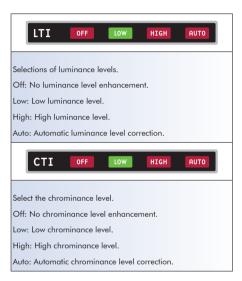


# 2-2-2 Black Level

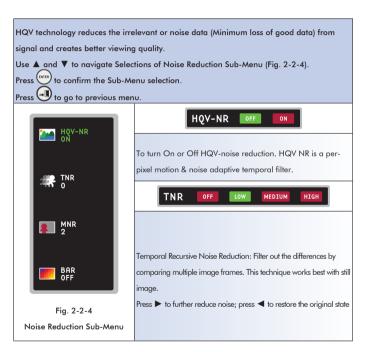


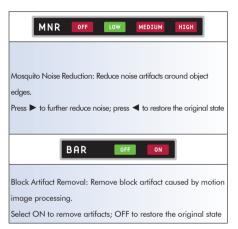
## 2-2-3 HQV



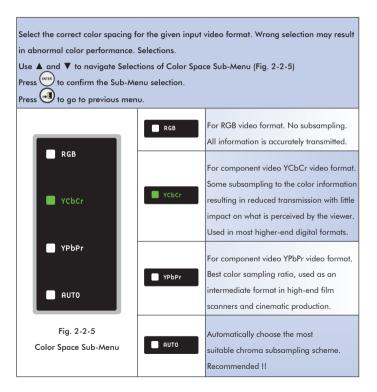


# 2-2-4 Noise Reduction

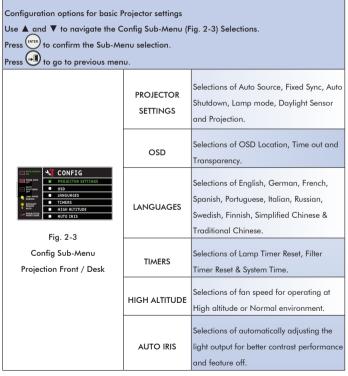




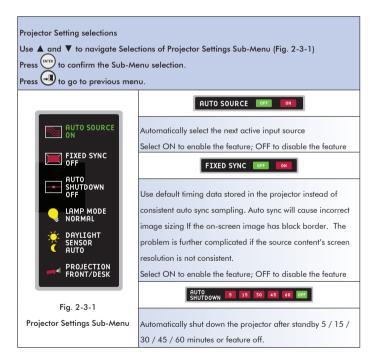
# 2-2-5 Color Space

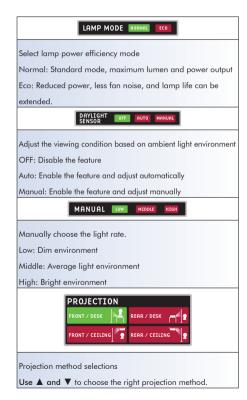


# 2-3 Config Sub-Menu

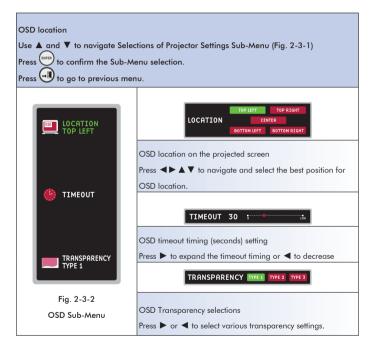


# 2-3-1 Projector Settings

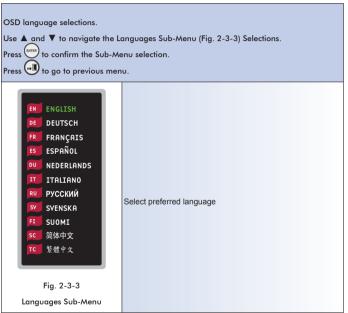




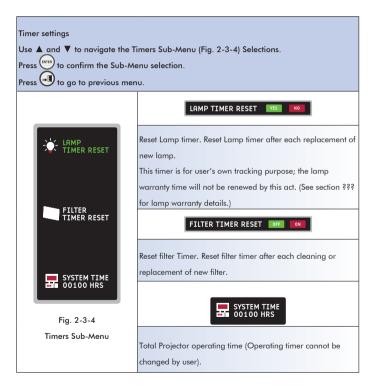
### 2-3-2 OSD



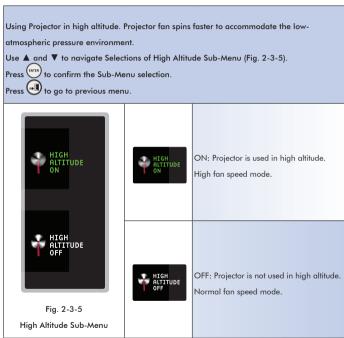
# 2-3-3 Languages



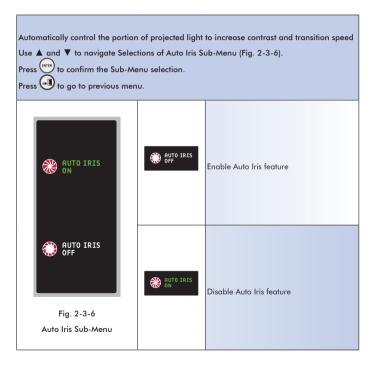
### 2-3-4 **Timers**



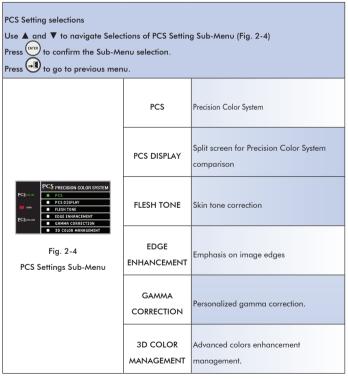
# 2-3-5 High Altitude



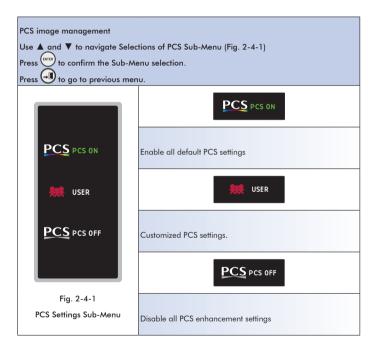
# 2-3-6 Auto Iris



# 2-4 PCS Settings Sub-Menu

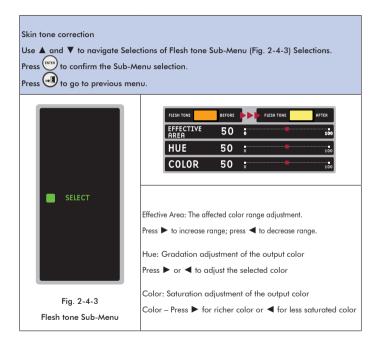


PCS display Sub-Menu

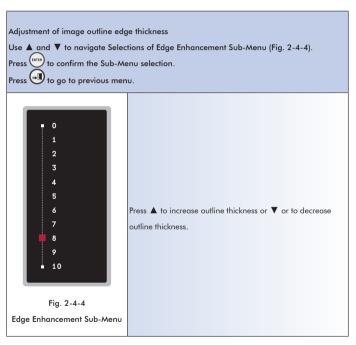


PCS enabled in full screen

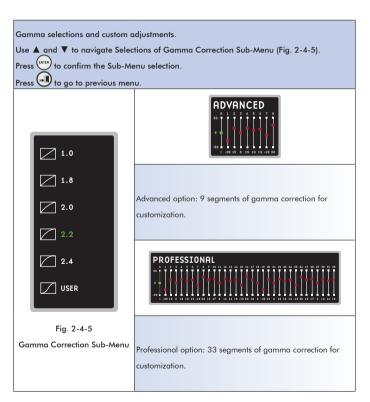
## 2-4-3 Flesh tone



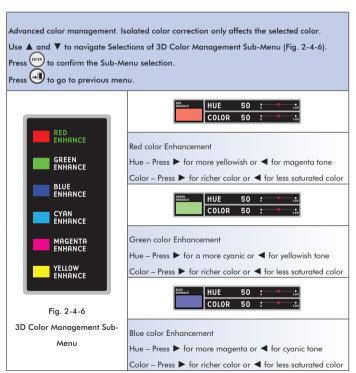
# 2-4-4 Edge Enhancement

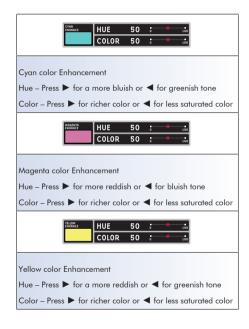


## 2-4-5 Gamma Correction

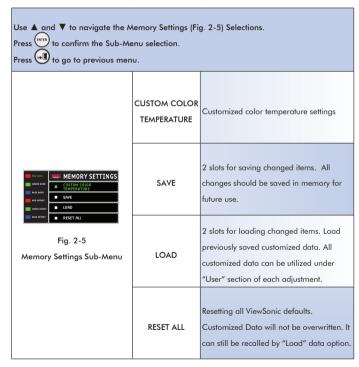


# 2-4-6 3D Color Management

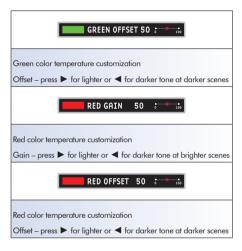




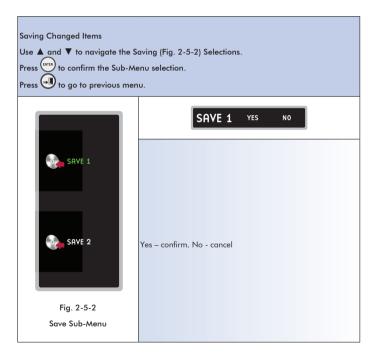
# 2-5 Memory Settings Sub-Menu



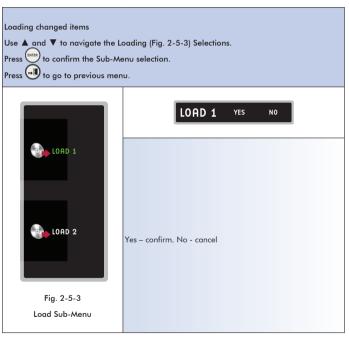
Customize color temperature adjustment. This defines color temperature in white balance and offset colors. Use ▲ and ▼ to navigate through Custom Color Temperature (Fig. 2-5-1) Selections. Press to confirm the Sub-Menu selection. Press to go to previous menu. BLUE GAIN 50 RED GAIN **GREEN GAIN** Blue color temperature customization Gain – press ▶ for lighter or ◀ for darker tone at brighter scenes **BLUE GAIN** BLUE OFFSET 50 RED OFFSET Blue color temperature customization **GREEN OFFSET** Offset – press ▶ for lighter or ◀ for darker tone at darker scenes **BLUE OFFSET** GREEN GAIN 50 : Fig. 2-5-1 Green color temperature customization **Custom Color Temperature** Gain – press ▶ for lighter or ◀ for darker tone at brighter scenes Sub-Menu



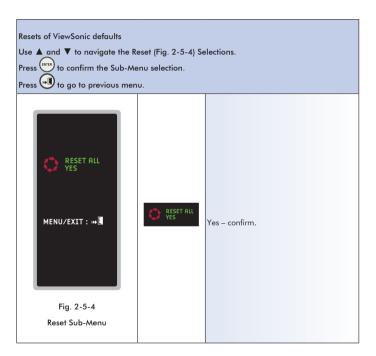
## 2-5-2 Save



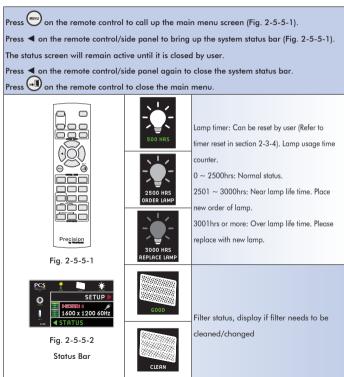
# 2-5-3 Load

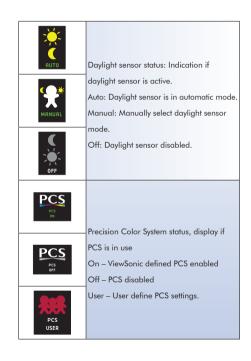


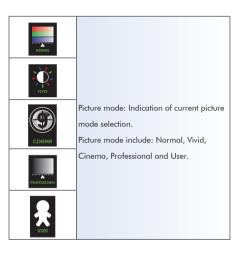
## 2-5-4 Reset



# 2-5-5 System Status Screen







NORMAL	System temperature status, display if system is operating under ideal temperature:  Normal – System under ideal operating temperature.
CAUTION	Caution – System is above normal but below critical. Recommend to check setup environment to return operation temperature to normal.  Warning – System temperature above recommend level, please shut down the projector and let it cools down to room temperature before further usage. If temperature is above critical level, system will automatically shut down.
2.00	F/W version

# Chapter 5: Making and Recalling the User Adjustments

# Making Adjustments 1-1. User Picture Mode Adjustments

User Picture Mode includes the following adjustments:

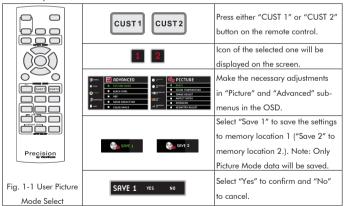
Under "Picture" sub-menu in the OSD

• Contrast • Brightness • Saturation • Hue • Sharpness

Under "Advanced" sub-menu in the OSD

• Black Level • Detail Enhancement

#### Perform adjustments:

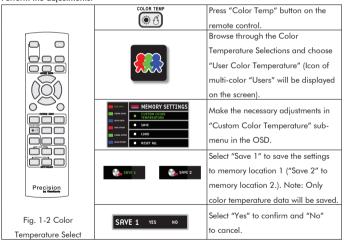


# 1-2. User Color Temperature Adjustments

User Color Temperature includes the following adjustments:

•Red Gain •Green Gain •Blue Gain •Red Offset •Green Offset •Blue Offset

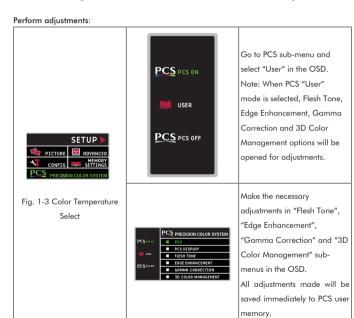
#### Perform the adjustments:



# 1-3. User PCS Adjustments

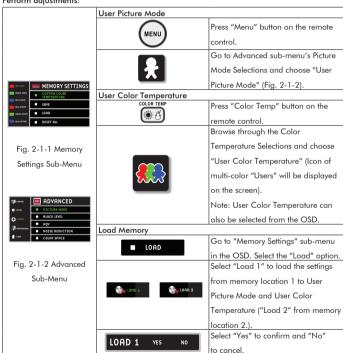
User PCS includes the following adjustments:

•3D Color Management •Flesh Tone •Edge Enhancement •Gamma Correction



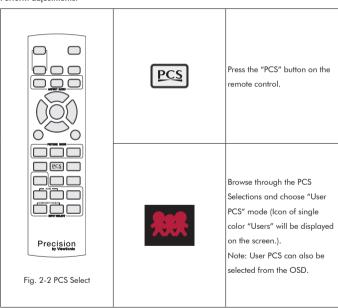
# 2-1 Recalling the User Picture Mode & Color Temperature

Perform adjustments:



# 2-2 Recalling the User PCS Adjustments

Perform adjustments:

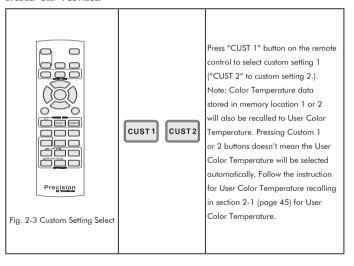


# 2-3 Recalling Both User Picture Mode and User PCS (Custom 1 & 2)

Pro8100 offers two quick access keys (Custom 1 and 2) on the remote control. It provides an easy execution for recalling custom-setting combinations.

Pressing "Cust 1" or "Cust 2" to:

- 1. "Load 1" if "Cust 1" is pressed ("Load 2" if "Cust 2" is pressed.).
- 2. Select "User" Picture Mode.
- 3 Select "User" PCS Mode



# **Appendix**

#### Maintenance

The projector needs proper maintenance. You should keep the lens clean as dust, dirt or spots will project on the screen and diminish image quality. If any other parts need replacing, contact your dealer or qualified service personnel. When cleaning any part of the projector, always switch off and unplug the projector first.

#### Warning:

Never open any of the covers on the projector. Dangerous electrical voltages inside the projector can cause severe injury. Do not attempt to service this product yourself. Refer all servicing to qualified service personnel.

## Cleaning the Lens

Gently wipe the lens with Micro-fiber wiping cloth. Do not touch the lens with your hands.

## **Cleaning the Projector Housing**

Gently wipe with a soft cloth. If dirt and stains are not easily removed, use a soft cloth damped with water, or water and neutral detergent, and wipe dry with a soft, dry cloth.

## Maintaining the Air Filter

The air filter, which is located at the back of the projector, should be replaced or cleaned when warned by system either because 200 hours of use or rise of internal temperature. If it is not cleaned periodically, it can become clogged with dust and prevent the projector from being ventilated properly. This can cause over heating and damage the projector.

#### To clean the air filter:

- 1 Pull down the filter module cover
- 2. Remove the filter module cover.
- 3. Remove the dirty filter directly.
- 4. Attach the clean air-filter.
- 5. Attach the filter cover to the projector.

## Replacing the Air Filter

The air filter should be replaced when cleaning is ineffective contact an authorized service center for the optional air filter.

#### « NOTE »

- Turn off the projector and remove the AC power cord from the power outlet before beginning maintenance work.
- · Make sure the lens is cool before cleaning.
- Do not use detergents or chemicals other than those noted above. Do not use benzene or thinners.
- Do not use chemical sprays.
- Use a soft cloth or lens paper only.

## Replacing the Lamp

Projector lamps have a finite life. Replace the lamp when:

- A warning message "Lamp is approaching the end of its useful life in full power operation.
   Replacement suggested!" appears on the screen.
- The image becomes darker and hues become weaker after a lamp has been for a long period of time.
- The projector lamp LED indicator turns into amber. Refer to section titled "LED Indicator Messages" for further details.

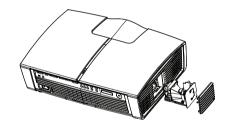
#### « NOTE »

- The lamp will remain in high temperature even after the projector's power is turned off. Wait
  for at least 45 minutes after power off to cool down the lamp. Touching the lamp prior proper
  cool down time can cause skin scalding.
- Do not touch any glass portion of the lamp at any time. The lamp may explode due to improper handling or grease generated from finger.
- Lamp lifetime may differ from lamp to lamp and according to the environment of use. There
  is no guarantee of the same lifetime for each lamp. Some lamps may fail or terminate their
  lifetime in a shorter period of time than other similar lamps.
- A lamp may explode as a result of vibration, shock or degradation as a result of hours of use as its lifetime draws to an end. Risk of explosion may differ according to the environment or conditions in which the projector and lamp are being used.
- Wear protective gloves and eyeglasses when fixing or detaching the lamp.
- Short on-off-cycles will damage the lamp and reduce lamp life. Wait at least for 7 minutes to turn off the projector after powering on.
- Do not operate the lamp in proximity to paper, cloth, or other combustible material nor cover it with such materials. Otherwise it could cause a fire.
- Do not operate the lamp in an atmosphere containing an inflammable substance, such as thinner. Otherwise it could cause a fire or explosion.
- Thoroughly ventilate the area or the room when operating the lamp in an oxygen atmosphere (in the air). If ozone is inhaled, it could cause headaches, nausea, dizziness, etc.

The lamp contains inorganic mercury. If the lamp bursts, the mercury inside the lamp will go
out of the projector. Leave the area immediately if the lamp shatters while being operated and
ventilate the area for at least 30 minutes in order to avoid the inhalation of mercury fumes.
 Otherwise it could be harmful to user's health.

#### To replace the lamp:

- 1. Loosen the two screws of lamp cover.
- 2. Remove the lamp cover.
- 3. Loosen the two screws of lamp module.
- 4. Pull out the old lamp module by lamp handle.
- 5. Mount the new lamp.
- 6. Replace the lamp cover.
- 7. Reset the lamp timer.



#### « NOTE »

- Dispose of the used lamp according to local regulations.
- Ensure that screws are tightened properly. Screws not tightened fully may result in injury or accidents.
- Since the lamp is made of glass, do not drop the unit and do not scratch the glass.
- Do not reuse the old lamp. This could cause the lamp to explode.
- Be sure to turn off the projector and unplug the AC power cord before replacing the lamp.
- Do not use the projector with the lamp cover removed.

# Troubleshooting

If you think something is wrong, check the followings before contacting customer service.

If This Happens	Check
No power	* Is the power cord or battery pack plugged in? * Is it connected to the projector?
Power is lost during use	* Is the ambient temperature high?  * Is the air intake or air exhaust blocked?
No picture	* Is the projector turned on?  * Are the connections set up correctly?  * Are all the connected devices functioning properly?
Picture not displayed correctly	* Is the input signal supported by the projector?,  * Is something generating an abnormal video signal, for instance the video tape?
Picture blurred Part of picture out of focus	* Is the lens dirty?  * Is the lens focus adjusted optimally?  * Is the projection distance within the projector's supported range?  * Is the projector's screen placement angle tilted too far?  * Are the sharpness or sampling phase adjustments off?
Colors too light	* Are the color or tint, adjustments off?
Bad shading	* Is the screen dirty?

# **List of Compatible Signals**

Resolution	V-Sync	H Sync		
640 x 480	50 Hz	24.69 kHz		
640 x 480	60 Hz	31.5 kHz		
640 x 480	72 Hz	37.9 kHz		
640 x 480	75 Hz	37.5 kHz		
640 x 480	85 Hz	43.3 kHz		
800 x 600	50 Hz	30.99 kHz		
800 x 600	56 Hz	35.2 kHz		
800 x 600	60 Hz	37.9 kHz		
800 x 600	72 Hz	48.1 kHz		
800 x 600	75 Hz	46.9 kHz		
800 x 600	85 Hz	53.7 kHz		
1024 x 768	50 Hz	39.63 kHz		
1024 x 768	60 Hz	48.4 kHz		
1024 x 768	70 Hz	56.5 kHz		
1024 x 768	75 Hz	60.0 kHz		
1024 x 768	85 Hz	68.7 kHz		
1280x768	60 Hz	47.8 kHz		
1280 x 1024	64.0 kHz	60 Hz		
1280 x 1024	80.0 kHz	75 Hz		
640 x 480	67 Hz	35 kHz		
832 x 624	75 Hz	49.72 kHz		
1024 x 768	75 Hz	60.24 kHz		
	640 x 480 640 x 480 640 x 480 640 x 480 640 x 480 800 x 600 800 x 600 800 x 600 800 x 600 1024 x 768 1024 x 768 1024 x 768 1024 x 768 1024 x 768 1280 x 1024 1280 x 1024 640 x 480 832 x 624	640 x 480 50 Hz 640 x 480 60 Hz 640 x 480 72 Hz 640 x 480 75 Hz 640 x 480 85 Hz 800 x 600 50 Hz 800 x 600 60 Hz 800 x 600 72 Hz 800 x 600 72 Hz 800 x 600 85 Hz 1024 x 768 50 Hz 1024 x 768 75 Hz 1024 x 768 75 Hz 1024 x 768 85 Hz 1280 x 1024 64.0 kHz 1280 x 1024 80.0 kHz 640 x 480 67 Hz 832 x 624 75 Hz		

	1280 x 720	60 Hz	45.1 kHz
	1280 x 800	60 Hz	49.7 kHz
	1280 x 800	75 Hz	62.8 kHz
	1280 x 800	85 Hz	71.6 kHz
	1360 x 768	60 Hz	47.7 kHz
Others	1400 x 1050	60 Hz	65.3 kHz
Officers	1440 x 900	60 Hz	55.9 kHz
	1600 x 1200	60 Hz	75 kHz
	1680 x 1050	60 Hz	65.3 kHz
	1920 x 1080	60 Hz	33.8 kHz
	1920 x 1080	60 Hz	67.5 kHz

Digital PC timing (HDMI)										
Mode	Resolution	V-Sync	H Sync							
VGA (DOS/Text mode visible)	640 x 480	60 Hz	31.5 kHz							
480p	720 x 483	60 Hz	31.5 kHz							
SVGA	800 x 600	60 Hz	37.9 kHz							
XGA	1024 x 768	60 Hz	48.4 kHz							
720p	1280 x 720	60 Hz	45 kHz							
WXGA	1280 x 768	60 Hz	47.8 kHz							
SXGA	1280 x 1024	60 Hz	64.0 kHz							
SXGA+	1400 x 1050	60 Hz	65.3 kHz							
WSXGA+	1680 x 1050	60 Hz	65.3 kHz							
1080i	1920 x 1080	60 Hz	33.8 kHz							

1080p	1920 x 1080	60 Hz	67.5 kHz
UXGA	1600 x 1200	60 Hz	75 kHz
	1280 x 800	60 Hz	49.7 kHz
	1280 x 960	60 Hz	60.0 kHz
Others	1360 x 768	60 Hz	47.7 kHz
	1440 x 900	60 Hz	55.9 kHz

Note: the Projector may need minor adjustment in the OSD to get optimized performance,

when below video si	gnals is input to it th	rough the HDMI co	nnector.
480i60	720x480	60	15.8k
480p60	720x480	60	31.5k
480p120	720x480	120	61.98k
576i50	720x576	50	15.6k
576p50	720x576	50	31.3k
576p100	720x576	100	61.2k
720p50	1280x720	50	37.5k
720p60	1280x720	60	45.0k
720p120	1280x720	120	92.89k
1080i50	1920x1080	50	28.1k
1080i60	1920x1080	60	33.8k
1080p24	1920x1080	24	27.0K
1080p50 (Native)	1920x1080	50	56.3k
1080p60 (Native)	1920x1080	60	67.5k

# **LED Indicator Message**

Power LED	Status LED	Indicates							
Blinking in Green	Off	Standby mode							
Green	Green	Warming up							
Green	Off	Projector ON.							
Green	Blinking in Green	Cooling down							
Orange	Green	In-proper shutdown due to power cut off.							
Orange	Off	A certain error has been detected.							
Orange	Red	Over temp.							
Orange	Blinking in Red	Lamp error.							

# **Product Specification**

Display type	3 x 0.74-inch LCD projector
Resolution	1920 x 1080 (1.07 Billion Colors)
F#	F = 1.83 – 2.36
Focal Length	f = 23.5 to 37.6 mm
Focus / Zoom	Motorized / Motorized 1.6x
Lens shift	Horizontal: Total of 120% of movement distance, 10% on each side Vertical: Total of 250% of movement distance, 75% on each side
Projection distance	40" – 300"
Computer input	Analog RGB, D-sub 15 pin
Video input	HDMlx2, Component video (YCbCr/YPbPr)x2, Composite videox1, S-Videox1.
Other terminals	RS-232, USB, DC 5V, DC 12V trigger
Computer Compatibility	Please refer to timing table above.
Video Compatibility	NTSC, PAL, SECAM, 480i/p, 576i/p, 720p, 1080i, 1080p/60, 1080p/50, 1080p/24.
Scanning Frequency	
Horizontal Frequency	15-100kHz
Vertical Frequency	50 - 90Hz
Operating temperature	+41°F (+5°C) to +95°F (+35°C)
Rated voltage	100–120VAC/220–240VAC (Auto Switching)
Dimension (W x H x D)	537 x 170 x 389mm
Weight	19.85 lbs (Approx. 9kg)

## RS232 command code

### 1. Protocol Setting



#### 2. Power ON/OFF command

Command		Send String (HEX)												
Power ON	BE	EF	10	05	00	C6	FF	11	11	01	00	01	00	
Power OFF	BE	EF	02	06	00	57	D0	2E	00	00	00	00	00	

#### 3. Source select command

Computer (Analog RGB 1)													
Send String (HEX)	BE	EF	02	06	00	ОВ	D2	32	00	00	00	00	00
Component 1													
Send String (HEX)	BE	EF	02	06	00	DA	D3	33	00	00	00	00	00
	Component 2												
Send String (HEX)	BE	EF	02	06	00	85	DA	5C	00	00	00	00	00
					S-Vio	deo							
Send String (HEX)	BE	EF	02	06	00	6D	D2	34	00	00	00	00	00
	Composite Video												
Send String (HEX)	BE	EF	02	06	00	ВС	D3	35	00	00	00	00	00

					HDM	J-1							
Send String (HEX)	BE	EF	02	06	00	8F	D3	36	00	00	00	00	00
					HDM	l-2							
Send String (HEX)	BE	EF	02	06	00	5E	D2	37	00	00	00	00	00

## 4.1 Key-Pad & IR command

Command						Send	String	(HEX)					
Picture mode	BE	EF	02	06	00	3B	D9	42	00	00	00	00	00
Color Temp.	BE	EF	02	06	00	EA	D8	43	00	00	00	00	00
Aspect Ratio	BE	EF	02	06	00	5D	D9	44	00	00	00	00	00
Menu	BE	EF	02	06	00	8C	D8	45	00	00	00	00	00
Exit	BE	EF	02	06	00	BF	D8	46	00	00	00	00	00
Up	BE	EF	02	06	00	6E	D9	47	00	00	00	00	00
Down	BE	EF	02	06	00	91	D9	48	00	00	00	00	00
Left	BE	EF	02	06	00	40	D8	49	00	00	00	00	00
Right	BE	EF	02	06	00	73	D8	4A	00	00	00	00	00
PCS	BE	EF	02	06	00	A2	D9	4B	00	00	00	00	00
Daylight Sensor	BE	EF	02	06	00	15	D8	4C	00	00	00	00	00
Overscan	BE	EF	02	06	00	C4	D9	4D	00	00	00	00	00
Black level	BE	EF	02	06	00	F7	D9	4E	00	00	00	00	00
HQV	BE	EF	02	06	00	26	D8	4F	00	00	00	00	00
Freeze	BE	EF	02	06	00	49	DA	50	00	00	00	00	00
Input	BE	EF	02	06	00	98	DB	51	00	00	00	00	00
V/H keystone	BE	EF	02	06	00	AB	DB	52	00	00	00	00	00

## 4.2 Key-Pad & IR command 2

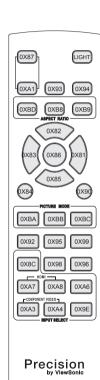
Com	mand					S	Send S	String	(HEX	()				
	Normal	BE	EF	02	06	00	8A	DF	63	00	00	00	00	00
Aspect Ratio	Anamorphic 1	BE	EF	02	06	00	3D	DE	64	00	00	00	00	00
	Anamorphic 2	BE	EF	02	06	00	EC	DF	65	00	00	00	00	00
	A11	BE	EF	02	06	00	DF	DF	66	00	00	00	00	00
Picture Mode	Cust 1	BE	EF	02	06	00	0E	DE	67	00	00	00	00	00
	Cust 2	BE	EF	02	06	00	F1	DE	68	00	00	00	00	00

## 5. Special command

Command						Send	String	(HEX)					
Lens shift Right	BE	EF	02	06	00	54	DB	5D	00	00	00	00	00
Lens shift Left	BE	EF	02	06	00	67	DB	5E	00	00	00	00	00
Lens shift Up	BE	EF	02	06	00	В6	DA	5F	00	00	00	00	00
Lens shift Down	BE	EF	02	06	00	В9	DF	60	00	00	00	00	00
Focus +	BE	EF	02	06	00	E3	DA	5A	00	00	00	00	00
Focus -	BE	EF	02	06	00	32	DB	5B	00	00	00	00	00
Zoom +	BE	EF	02	06	00	68	DE	61	00	00	00	00	00
Zoom -	BE	EF	02	06	00	5B	DE	62	00	00	00	00	00

## 6. Data get

Command								Se	nd S	trin	g (H	EX)							
					Byte	0 ~	Byt	e 1	ı					Ву	te12	2 ~	Byte	18	
Error Code Get	BE	EF	1A	0C	00	7A	46	4F	00	01	00	00	00	00	00	00	00	00	00
Filter Counter Get	BE	EF	1A	0C	00	91	93	50	00	01	00	00	00	00	00	00	00	00	00
Temp Get	BE	EF	1A	0C	00	52	6E	51	00	01	00	00	00	00	00	00	00	00	00
Lamp Life Get	BE	EF	1A	0C	00	56	6A	52	00	01	00	00	00	00	00	00	00	00	00
Unit on time Get	BE	EF	1A	0C	00	89	8B	5A	00	01	00	00	00	00	00	00	00	00	00
Return	1E	_	_	_	_														



Note: Manufacture prefix code needs to be added to the IR command code. ViewSonic manufacture prefix code is 0x83, 0xF4.

## Complete IR command code table:

Code Protocol Type: NEC format

				Code Profoco	Type: NEC tormat
Command	Function Name	Description	Command	Function Name	Description
0x87	Power On	Discrete Power On. <sup>1</sup>	0x94	Zoom/Focus	Zoom/Focus toggle
	Power On/Off	Toggle Power On/Off. <sup>2</sup>	0x8D	V/H Keystone	V/H Keystone toggle
0xA1	Power Off	Discrete Power Off	0x82	Up	
0x9E	PC	Direct PC select	0x85	Down	
0x9B	Component Video	Component 1/2 browse	0x83	Left	
0xA3	Component 1	Direct Component 1 select	0x81	Right	
0xA4	Component 2	Direct Component 2 select	0x86	Enter	Confirm selection
0xA6	CV/S-Video	CV/S-Video browse	0x84	Menu	Open/Exit OSD
0x9C	S-Video	Direct S-Video select	0x90	Exit	Cancel selection
0x9D	cv	Direct CV select	0x95	PCS	PCS browse
0x9A	HDMI	HDMI 1/2 browse	0x96	Daylight Sensor	DS browse
0xA7	HDMI 1	Direct HDMI 1 select	0x97	Overscan	Overscan browse
0xA8	HDMI 2	Direct HDMI 2 select	0x98	Black Level	Black Level browse
0x91	Picture Mode	All mode browse	0x99	HQV	HQV enable
0xBA	Picture Mode All	All mode browse excl. user.	0x80	Freeze	Image freeze
0xBB	Cust 1	Custom mode 1	0xB0	Lens Shift Right	
0xBC	Cust 2	Custom mode 2	0xB1	Lens Shift Left	
0x92	Color Temp	Color Temp browse	0xB2	Lens Shift Up	
0x8E	Aspect Ratio	All AR browse	0xB3	Lens Shift Down	
0xBD	Normal AR	Normal AR browse	0xB4	Focus +	
0xB8	Anamorphic 1	Anamorphic 1 AR direct	0xB5	Focus -	
0xB9	Anamorphic 2	Anamorphic 2 AR direct	0xB6	Zoom +	
0x93	Lens Shift		0xB7	Zoom -	

<sup>1</sup> When discrete code mode is enabled.

<sup>&</sup>lt;sup>2</sup> When discrete code mode is disabled.

## **Customer Support**

For technical support or product service, see the table below or contact your reseller.

Note: You will need the product serial number.

Country/Region	Web Site	T=Telephone F=Fax	E-mail
Australia/New Zealand	www.viewsonic.com.au	AUS=1800 880 818 NZ=0800 008 822	service@au.viewsonic.com
Canada	www.viewsonic.com	T (Toll-Free)= 1-866-463-4775 T (Toll)= 1-424-233-2533 F= 1-909-468-1202	service.ca@viewsonic.com
Europe/Middle East/Baltic countries/North Africa	www.viewsoniceurope.com	Contact your reseller	
Hong Kong	www.hk.viewsonic.com	T= 852 3102 2900	service@hk.viewsonic.com
India	www.in.viewsonic.com	T= 1800 11 9999	service@in.viewsonic.com
Korea	www.kr.viewsonic.com	T= 080 265 9080	service@kr.viewsonic.com
Latin America (Argentina)	www.viewsonic.com/la/	T= 0800 666 0194	soporte@viewsonic.com
Latin America (Brazil)	www.viewsonic.com/la/	T= 0800 891 6984	soporte@viewsonic.com
Latin America (Chile)	www.viewsonic.com/la/	T= 800 440 303	soporte@viewsonic.com
Latin America (Columbia)	www.viewsonic.com/la/	T= 01 800 915 6588	soporte@viewsonic.com
Latin America (Mexico)	www.viewsonic.com/la/	T= 001 800 514 6518	soporte@viewsonic.com
Electroser, Av Reforma No. 4	COL. LA PAZ, 72160 PUEBLA, PUE. 03Gx39 y 41, 97000 Merida, Yucatan http://www.viewsonic.com/la/soporte/in	. Tel: 01.999.925.19.16	AS
Electroser, Av Reforma No. 4	03Gx39 y 41, 97000 Merida, Yucatan	. Tel: 01.999.925.19.16	AS soporte@viewsonic.com
Electroser, Av Reforma No. 4 Other places please refer to h	03Gx39 y 41, 97000 Merida, Yucatan http://www.viewsonic.com/la/soporte/in	Tel: 01.999.925.19.16 idex.htm#Mexico	
Electroser, Av Reforma No. 4 Other places please refer to h Latin America (Peru)	.03Gx39 y 41, 97000 Merida, Yucatan http://www.viewsonic.com/la/soporte/in www.viewsonic.com/la/	Tel: 01.999.925.19.16  dex.htm#Mexico  T= 0800 53458	soporte@viewsonic.com
Electroser, Av Reforma No. 4 Other places please refer to h Latin America (Peru) Macau Puerto Rico & Virgin	03Gx39 y 41, 97000 Merida, Yucatan tttp://www.viewsonic.com/la/soporte/in www.viewsonic.com/la/ www.hk.viewsonic.com	Tel: 01.999.925.19.16 dex.htm#Mexico  T= 0800.53458  T= 853.700.303  T= 1-800-688-6688 (English) T= 1-866-379-1304 (Spanish)	soporte@viewsonic.com service@hk.viewsonic.com service.us@viewsonic.com
Electroser, Av Reforma No. 4 Other places please refer to t Latin America (Peru)  Macau  Puerto Rico & Virgin Islands  Singapore/Malaysia/	03Gx39 y 41, 97000 Merida, Yucatan  ttp://www.viewsonic.com/la/soporte/in  www.viewsonic.com/la/  www.hik.viewsonic.com  www.viewsonic.com	Tel: 01.999.925.19.16 dex.htm#Mexico  T= 0800 53458  T= 853 700 303  T= 1-800-688-6688 (English) T= 1-866-379-1304 (Spanish) F= 1-909-468-1202	soporte@viewsonic.com service@hk.viewsonic.com service.us@viewsonic.com soporte@viewsonic.com service@sg.viewsonic.com
Electroser, Av Reforma No. 4 Other places please refer to t Latin America (Peru)  Macau  Puerto Rico & Virgin Islands  Singapore/Malaysia/ Thailand	03Gx39 y 41, 97000 Merida, Yucatan ttp://www.viewsonic.com/la/soporte/in www.viewsonic.com/la/ www.hk.viewsonic.com  www.viewsonic.com  www.viewsonic.com	Tel: 01.999.925.19.16 dex.htm#Mexico  T= 0800 53458  T= 853 700 303  T= 1-800-688-6688 (English) F= 1-909-468-1202  T= 65 6461 6044	soporte@viewsonic.com service@hk.viewsonic.com service.us@viewsonic.com soporte@viewsonic.com service@sg.viewsonic.com

## **Limited Warranty**

## VIEWSONIC® PROJECTOR

#### What the warranty covers:

ViewSonic warrants its products to be free from defects in material and workmanship, under normal use, during the warranty period. If a product proves to be defective in material or workmanship during the warranty period, ViewSonic will, at its sole option, repair or replace the product with a like product. Replacement product or parts may include remanufactured or refurbished parts or components.

#### How long the warranty is effective:

North and South America: Please check with your local dealer or local ViewSonic office for the warranty information.

**Europe:** 3 years for all parts excluding the lamp, 3 years for labor, 1 year for the original lamp from the date of the first consumer purchase.

Other regions or countries: Please check with your local dealer or local ViewSonic office for the warranty information.

Lamp warranty subject to terms and conditions, verification and approval. Applies to manufacturer's installed lamp only.

All accessory lamps purchased separately are warranted for 90 days.

#### Who the warranty protects:

This warranty is valid only for the first consumer purchaser.

#### What the warranty does not cover:

- Any product on which the serial number has been defaced, modified or removed.
- 2. Damage, deterioration or malfunction resulting from:
  - Accident, misuse, neglect, fire, water, lightning, or other acts of nature, unauthorized product modification, or failure to follow instructions supplied with the product.
  - b. Repair or attempted repair by anyone not authorized by ViewSonic.
  - c. Any damage of the product due to shipment.
  - d. Removal or installation of the product.
  - **e.** Causes external to the product, such as electric power fluctuations or failure.
  - Use of supplies or parts not meeting ViewSonic's specifications.
  - Normal wear and tear.
  - h. Any other cause which does not relate to a product defect.
- Any product exhibiting a condition commonly known as "image burn-in" which results when a static image is displayed on the product for an extended period of time.
- Removal, installation, and set-up service charges.

#### How to get service:

- For information about receiving service under warranty, contact ViewSonic Customer Support
  (please refer to "Customer Support" page). You will need to provide your product's serial number.
- To obtain warranted service, you will be required to provide (a) the original dated sales slip, (b) your name, (c) your address, (d) a description of the problem, and (e) the serial number of the product.

- Take or ship the product freight prepaid in the original container to an authorized ViewSonic service center or ViewSonic.
- For additional information or the name of the nearest ViewSonic service center, contact ViewSonic.

#### Limitation of implied warranties:

There are no warranties, express or implied, which extend beyond the description contained herein including the implied warranty of merchantability and fitness for a particular purpose.

#### Exclusion of damages:

ViewSonic's liability is limited to the cost of repair or replacement of the product. ViewSonic shall not be liable for:

- Damage to other property caused by any defects in the product, damages based upon inconvenience, loss of use of the product, loss of time, loss of profits, loss of business opportunity, loss of goodwill, interference with business relationships, or other commercial loss, even if advised of the possibility of such damages.
- Any other damages, whether incidental, consequential or otherwise.
- Any claim against the customer by any other party.

#### Effect of state law:

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state. Some states do not allow limitations on implied warranties and/or do not allow the exclusion of incidental or consequential damages, so the above limitations and exclusions may not apply to you.

#### Sales outside the U.S.A. and Canada:

For warranty information and service on ViewSonic products sold outside of the U.S.A. and Canada, contact ViewSonic or your local ViewSonic dealer.

The warranty period for this product in mainland China (Hong Kong, Macao and Taiwan Excluded) is subject to the terms and conditions of the Maintenance Guarantee Card.

For users in Europe and Russia, full details of warranty provided can be found in www.viewsoniceurope. com under Support/Warranty Information.



